

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
 Data File : BF108349.D
 Acq On : 21 Aug 2018 20:41
 Operator : JU/SJ
 Sample : J4521-19DL 4X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11967DL

Manual Integrations
 APPROVED

Sohil
 8/22/2018 4:03:03 PM

Quant Time: Aug 22 00:19:50 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 21 15:20:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	187169	20.00	ng	-0.01
21) Naphthalene-d8	8.29	136	692962	20.00	ng	-0.01
38) Acenaphthene-d10	10.05	164	315869	20.00	ng	-0.02
63) Phenanthrene-d10	11.54	188	509028	20.00	ng	-0.02
75) Chrysene-d12	14.20	240	382231	20.00	ng	-0.02
86) Perylene-d12	15.76	264	360938	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	268225	25.94	ng	0.00
7) Phenol-d6	6.62	99	365546	26.61	ng	-0.01
23) Nitrobenzene-d5	7.56	82	234342	18.87	ng	-0.02
41) 2,4,6-Tribromophenol	10.84	330	74482	23.64	ng	-0.02
44) 2-Fluorobiphenyl	9.36	172	439816	22.35	ng	-0.02
78) Terphenyl-d14	13.12	244	323424	21.51	ng	-0.02
Target Compounds						
57) Fluorene	10.60	166	49249	2.409	ng	96
70) Phenanthrene	11.57	178	589282	24.544	ng	98
71) Anthracene	11.62	178	228134	9.271	ng	99
74) Fluoranthene	12.77	202	1236436	47.187	ng	96
77) Pyrene	13.00	202	1155404	47.746	ng	98
80) Benzo(a)anthracene	14.19	228	679634	30.982	ng	98
82) Chrysene	14.22	228	543479	27.024	ng	97
85) Indeno(1,2,3-cd)pyrene	17.37	276	240984	13.830	ng	# 87
87) Benzo(b)fluoranthene	15.29	252	768898m	35.651	ng	
88) Benzo(k)fluoranthene	15.32	252	187569m	9.461	ng	
89) Benzo(a)pyrene	15.69	252	517183	26.779	ng	94
90) Dibenzo(a,h)anthracene	17.37	278	66092	4.136	ng	# 92
91) Benzo(a,h,i)perylene	17.86	276	212106	13.480	ng	# 89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

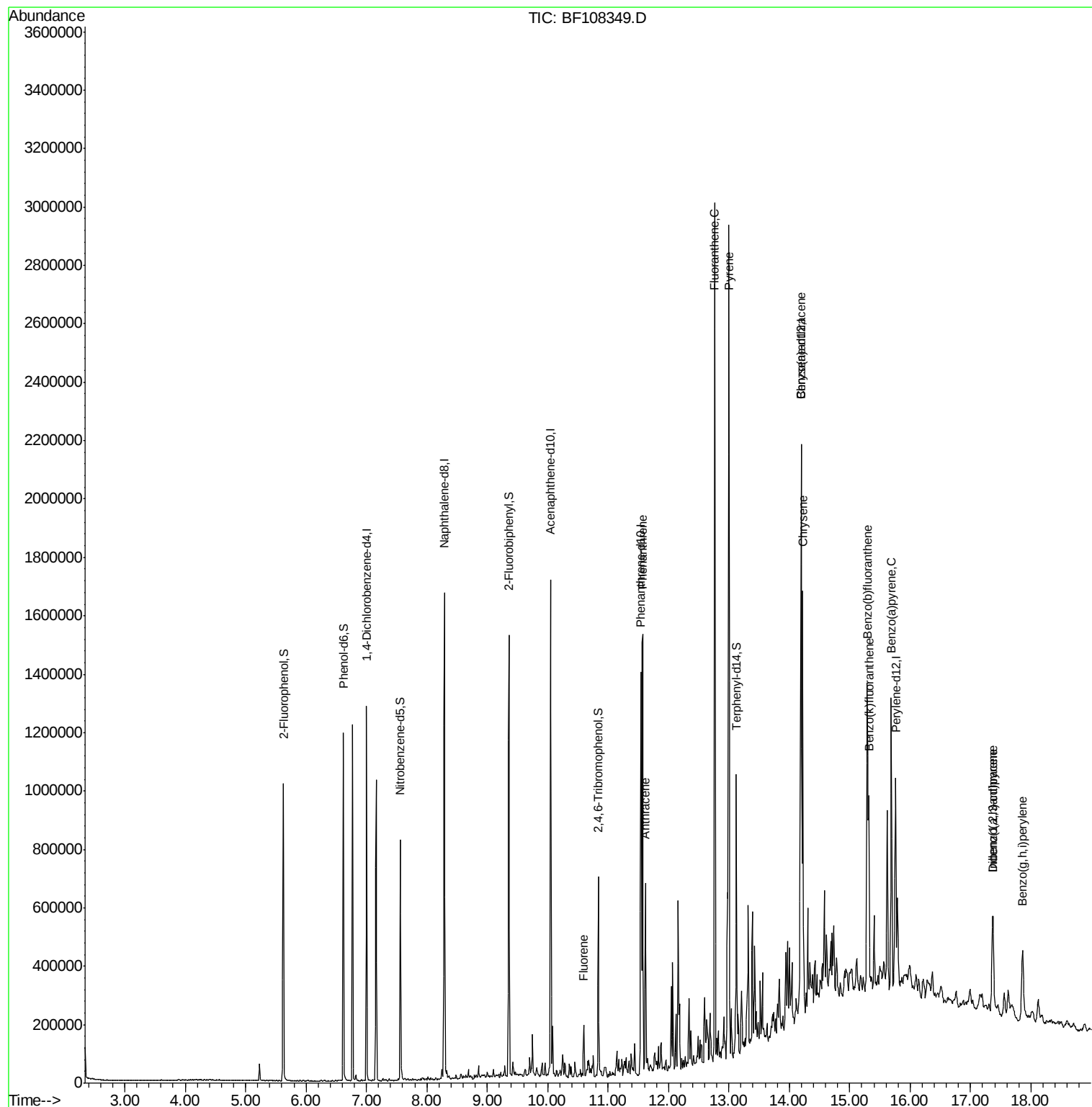
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
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72-11967DL

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#1

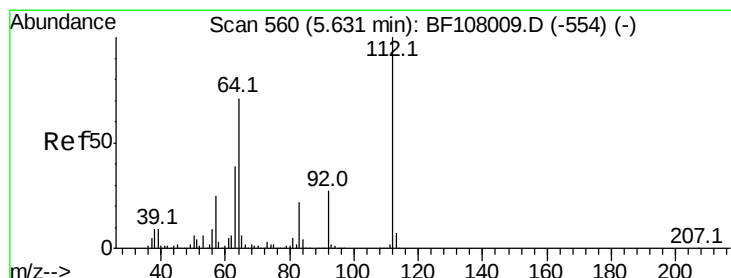
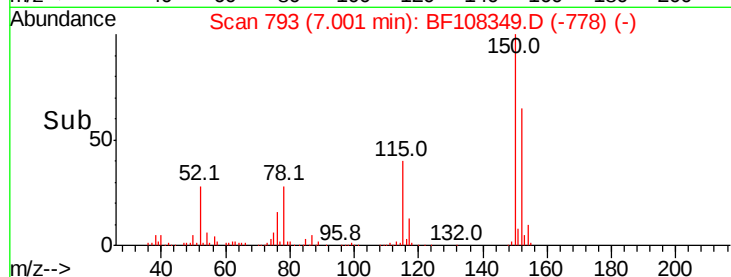
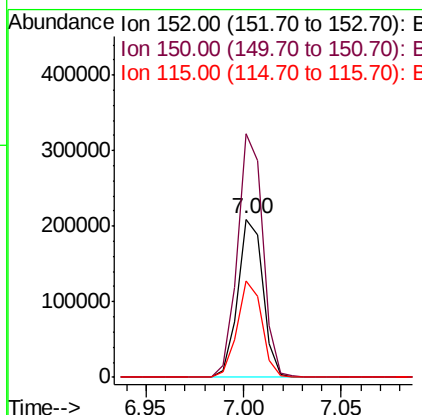
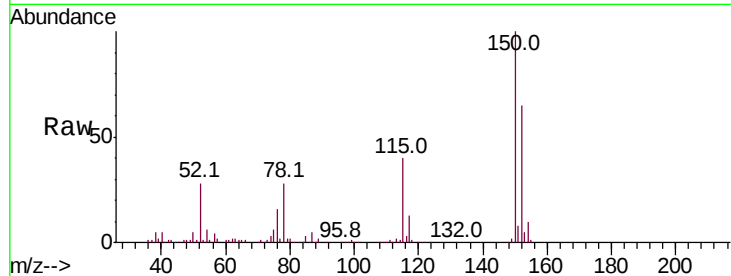
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Instrument :
BNA_F
ClientSampleId :
72-11967DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.9	124.6	186.8
115	60.9	50.1	75.1

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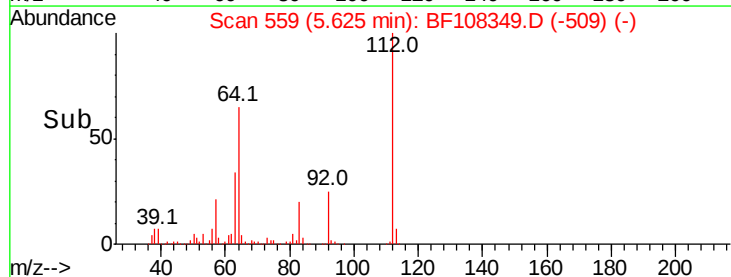
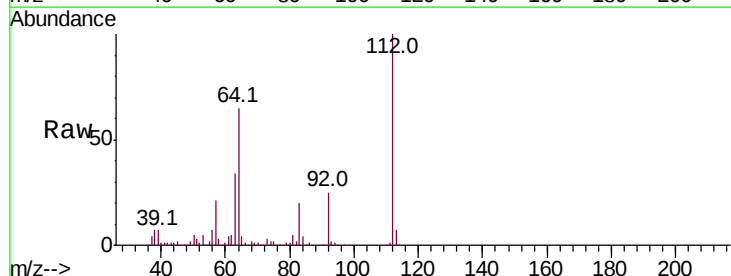
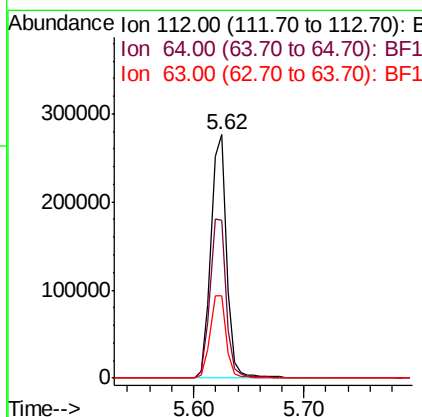
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#5

2-Fluorophenol
Concen: 25.945 ng
RT: 5.62 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.9	47.9	71.9
63	33.6	23.7	35.5





#7

Phenol-d6

Concen: 26.608 ng

RT: 6.62 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

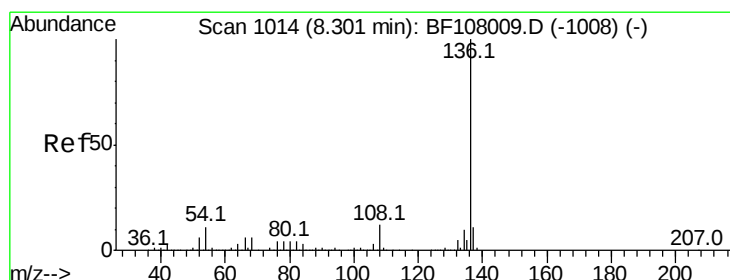
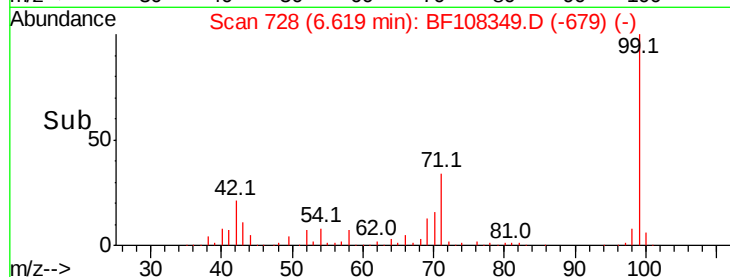
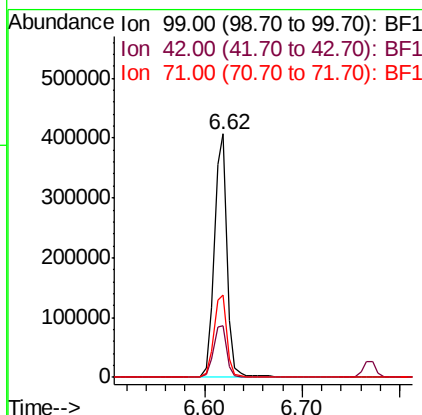
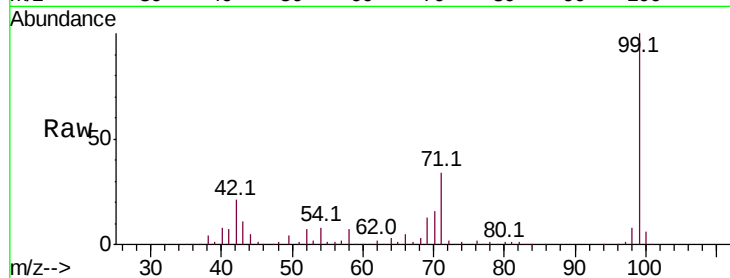
ClientSampled :

72-11967DL

Tot Ion:	99	Resp:	365546
Ion	Ratio	Lower	Upper
99	100		
42	21.1	14.5	21.7
71	33.8	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

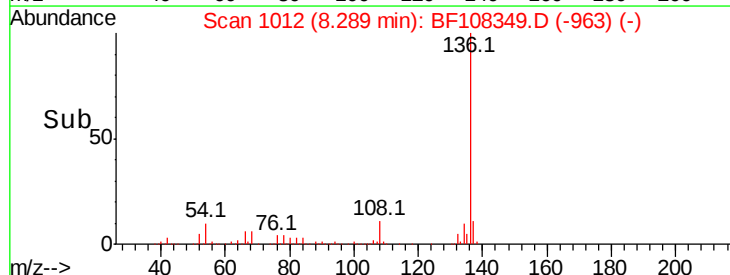
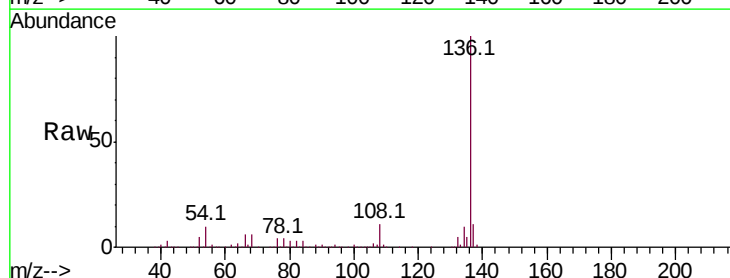
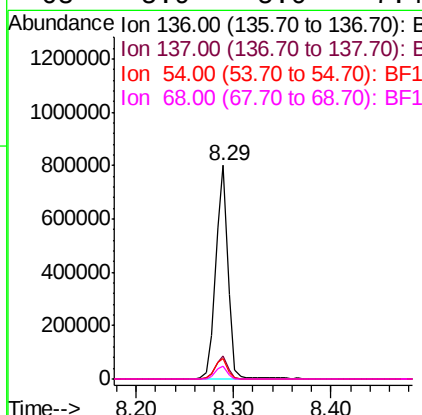
RT: 8.29 min Scan# 1012

Delta R.T. -0.01 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Tgt Ion:	136	Resp:	692962
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	9.8	6.6	9.8
68	5.9	5.0	7.4





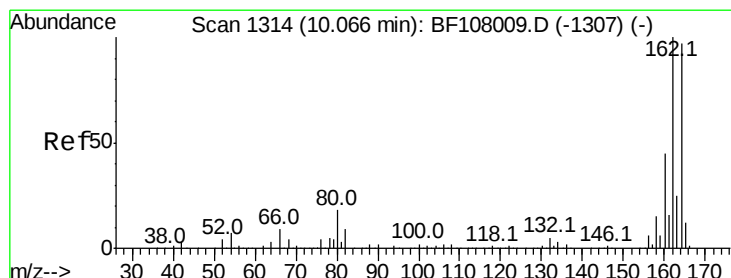
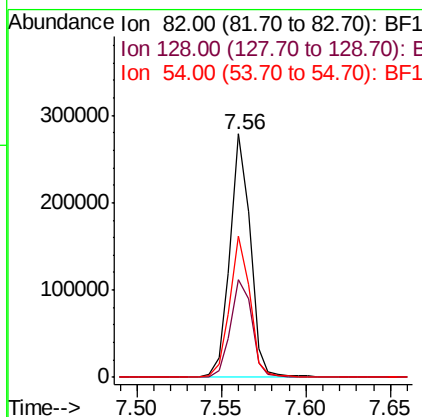
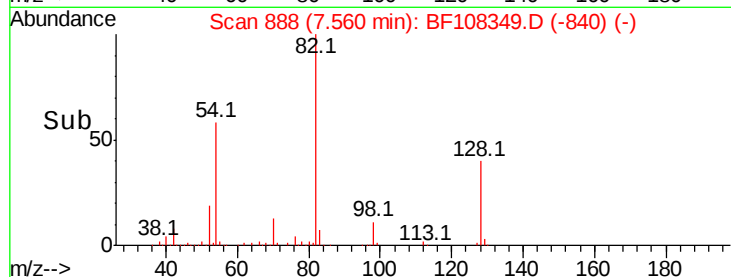
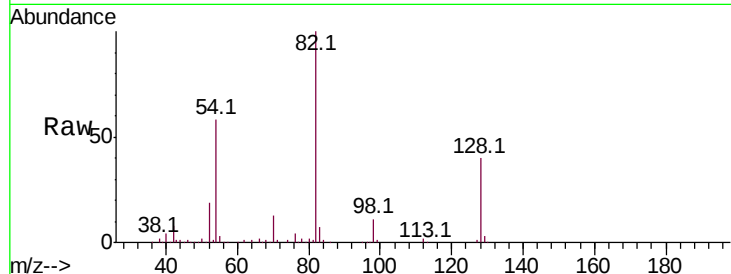
#23
 Nitrobenzene-d5
 Concen: 18.871 ng
 RT: 7.56 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Instrument :
 BNA_F
 ClientSampleId :
 72-11967DL

Tot Ion	82	Resp	234342
Ion Ratio	100	Lower	Upper
82	100		
128	40.3	36.1	54.1
54	58.1	41.4	62.2

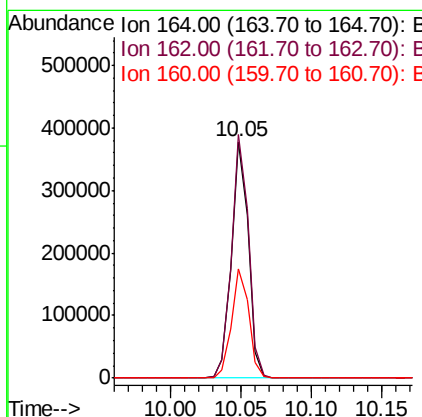
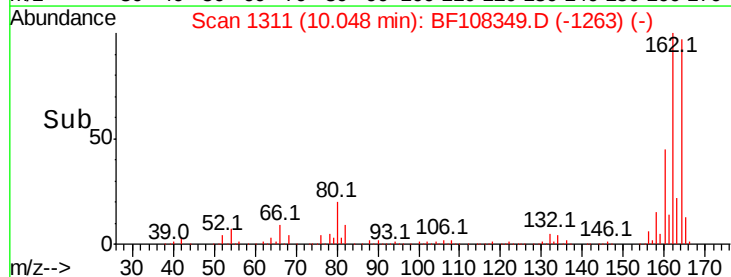
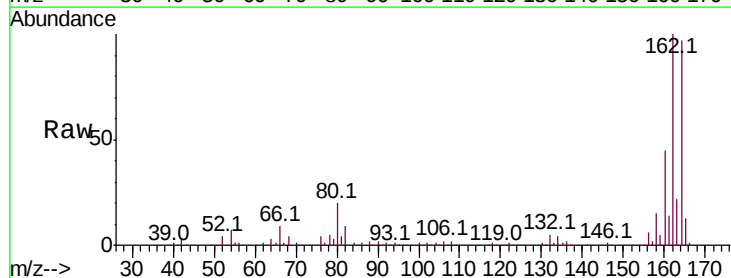
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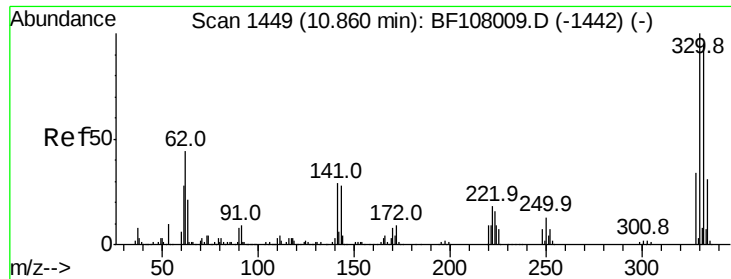
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.05 min Scan# 1311
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Tgt Ion	164	Resp	315869
Ion Ratio	100	Lower	Upper
164	100		
162	103.2	86.1	129.1
160	46.2	38.3	57.5





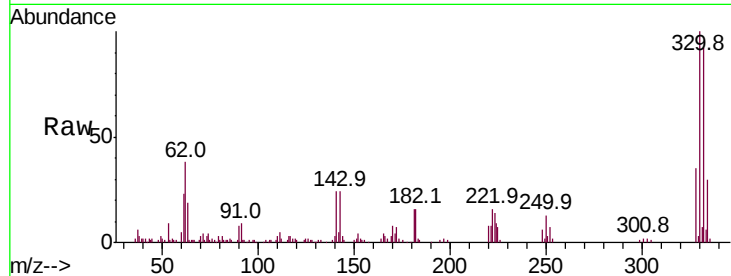
#41
 2,4,6-Tribromophenol
 Concen: 23.640 ng
 RT: 10.84 min Scan# 1446
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Instrument :
 BNA_F
 ClientSampleID :
 72-11967DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.5	77.0	115.6
141	33.9	29.9	44.9

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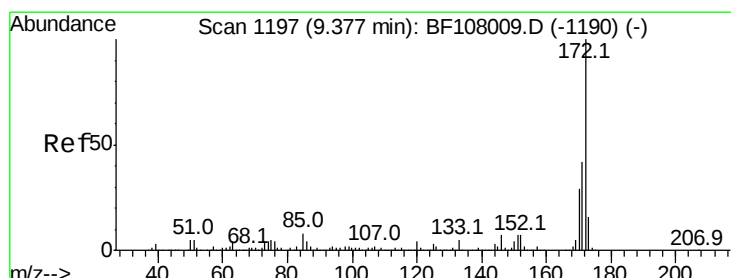
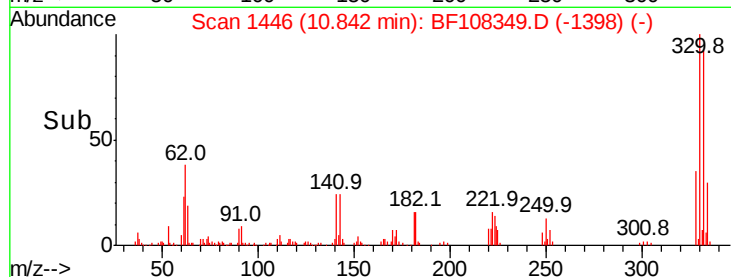
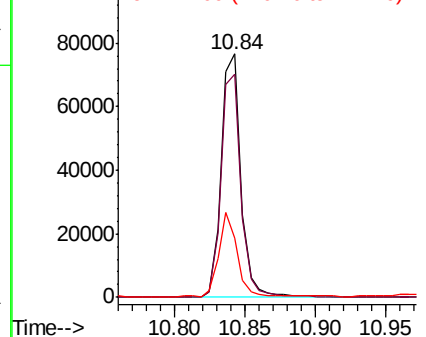


Abundance

Ion 329.80 (329.50 to 330.50): E

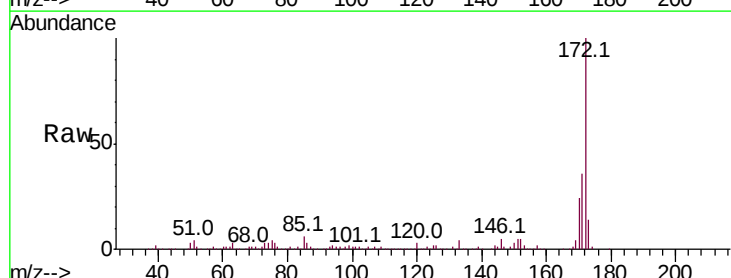
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 22.355 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.7	44.5
170	23.8	19.6	29.4

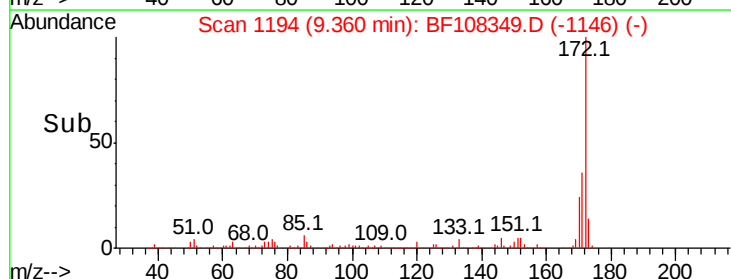
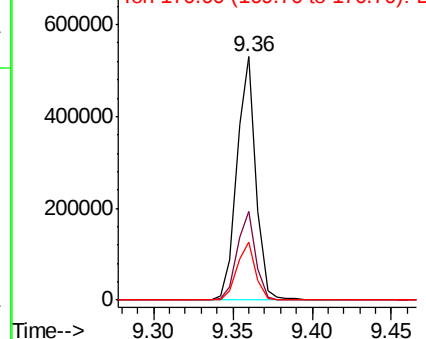


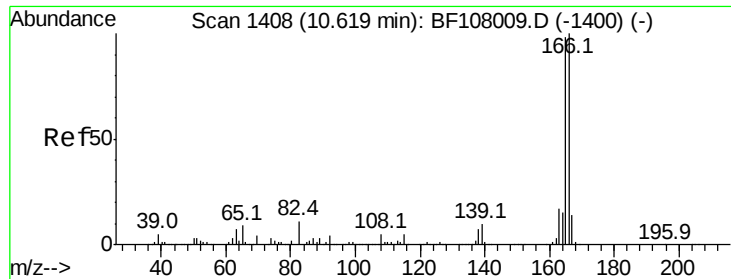
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





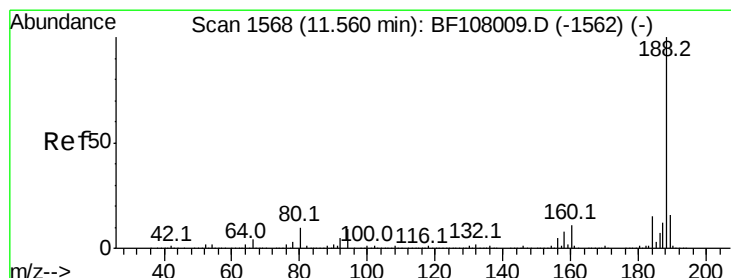
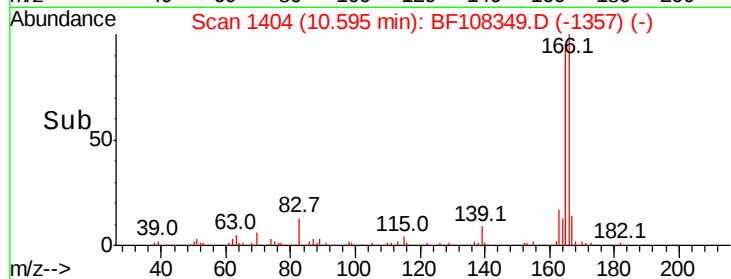
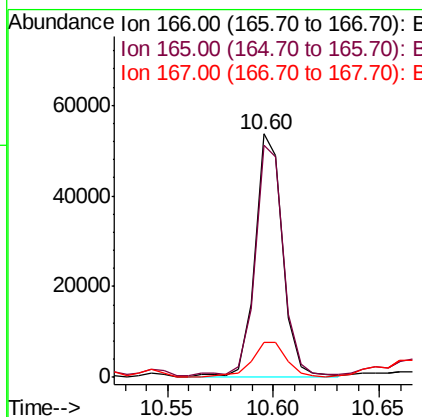
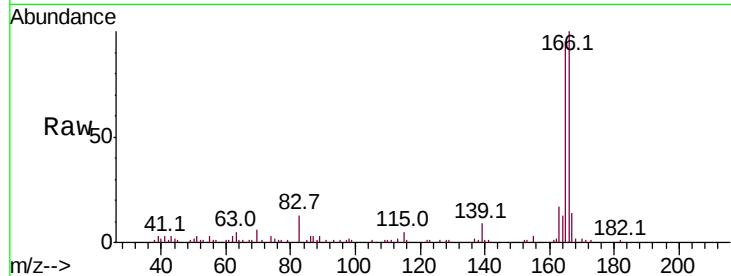
#57
Fluorene
 Concen: 2.409 ng
 RT: 10.60 min Scan# 1404
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Instrument :
 BNA_F
 ClientSampleId :
 72-11967DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	95.2	79.8	119.8	
167	14.2	10.6	16.0	

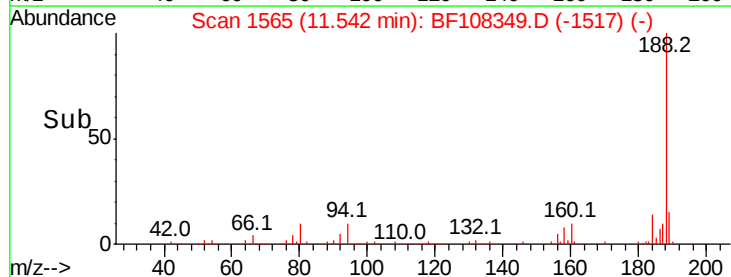
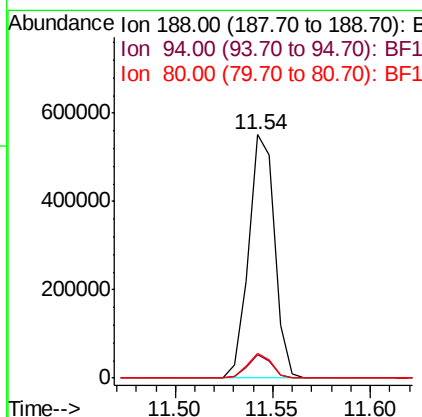
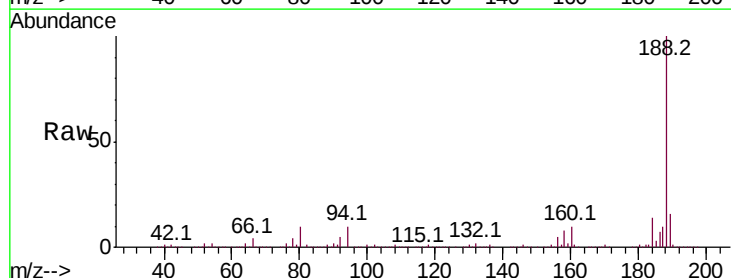
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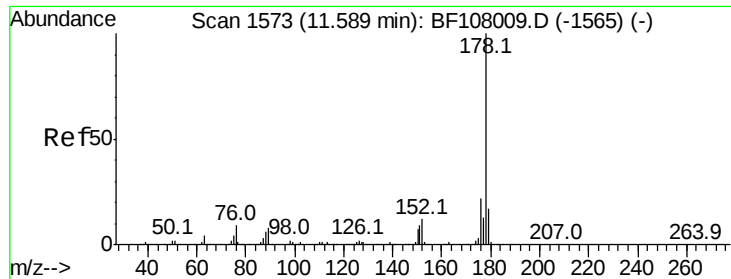
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.54 min Scan# 1565
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	9.6	8.5	12.7	
80	10.4	9.2	13.8	





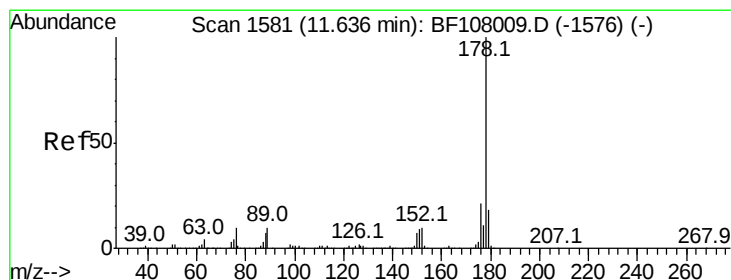
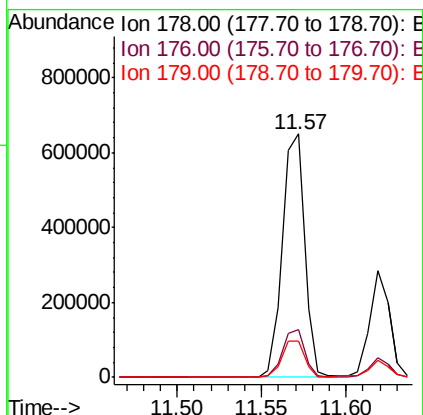
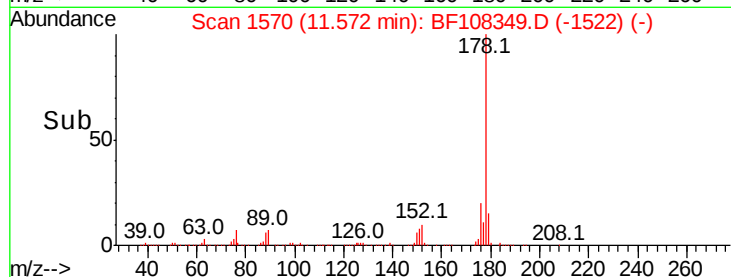
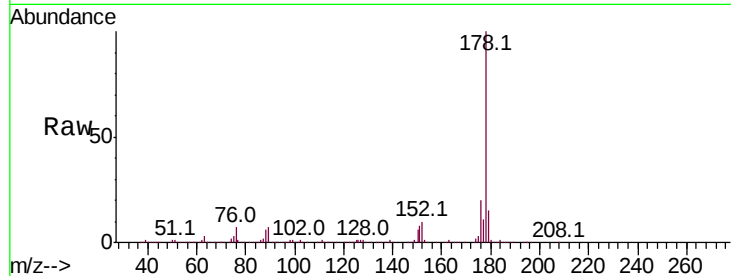
#70
Phenanthrene
Concen: 24.544 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Instrument :
BNA_F
ClientSampleId :
72-11967DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.0	13.0	19.6

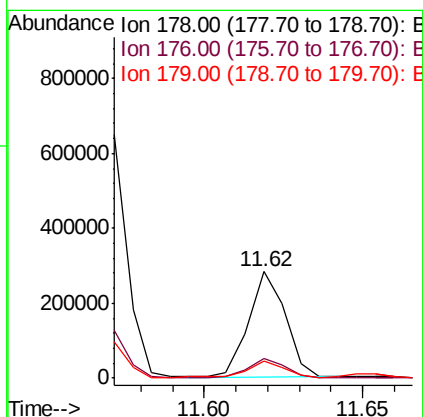
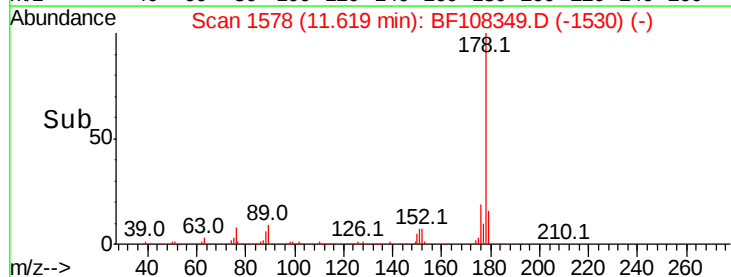
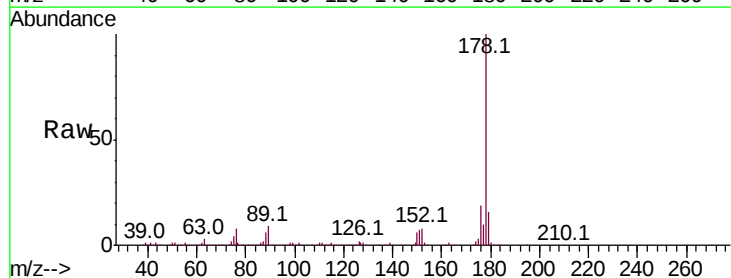
Manual Integrations
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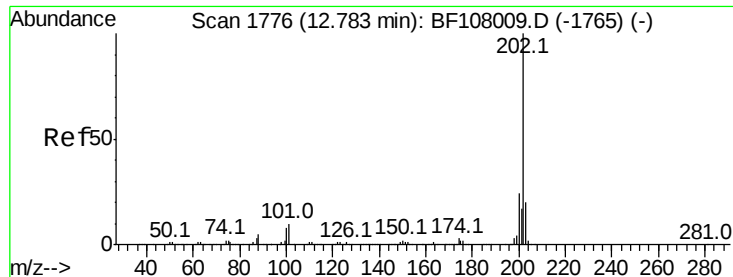
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#71
Anthracene
Concen: 9.271 ng
RT: 11.62 min Scan# 1578
Delta R.T. -0.02 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.8	12.6	19.0





#74

Fluoranthene

Concen: 47.187 ng

RT: 12.77 min Scan# 1773

Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

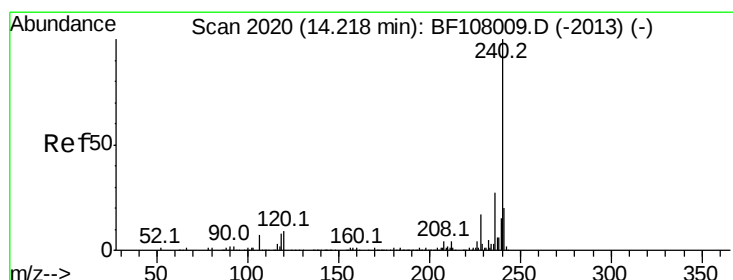
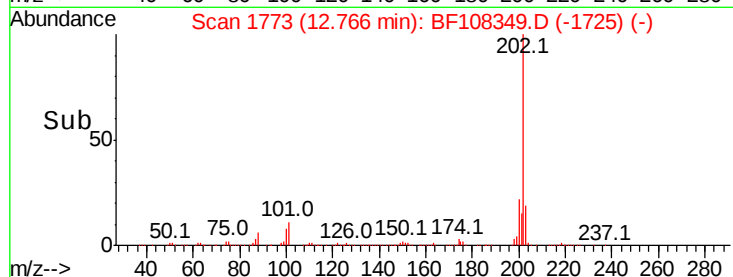
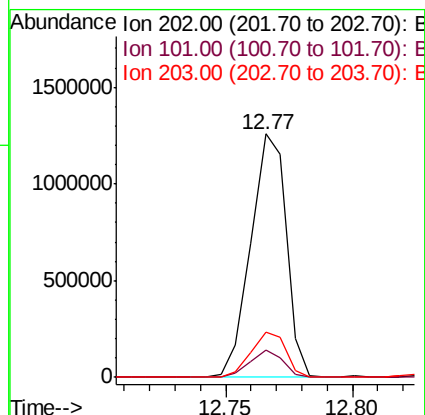
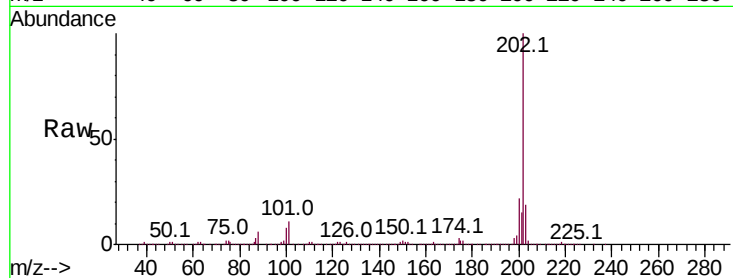
ClientSampleId :

72-11967DL

Tot Ion:	202	Resp:	1236436
Ion Ratio	Lower	Upper	
202	100		
101	11.0	0.0	34.1
203	18.7	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

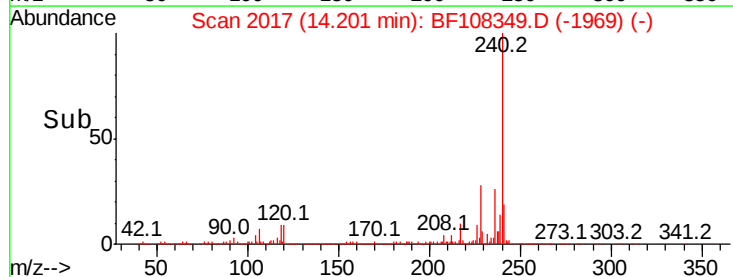
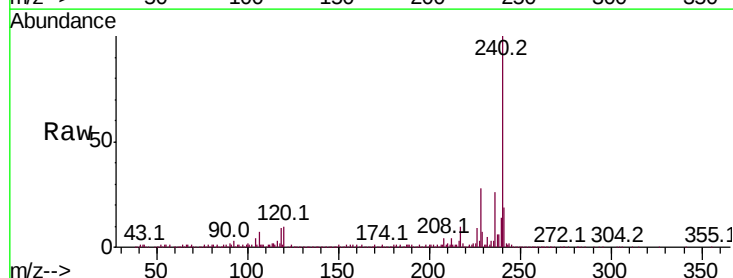
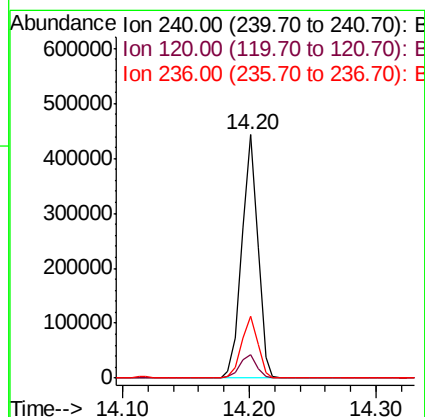
RT: 14.20 min Scan# 2017

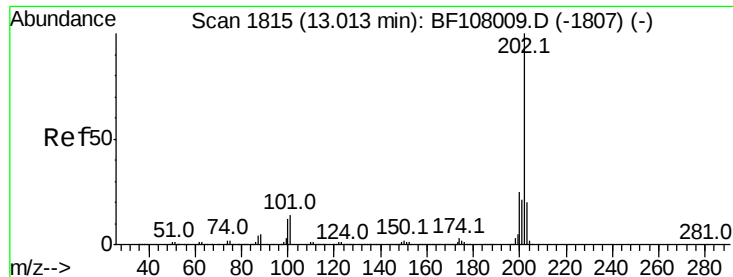
Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Tgt Ion:	240	Resp:	382231
Ion Ratio	Lower	Upper	
240	100		
120	9.6	9.5	14.3
236	25.6	20.7	31.1





#77

Pvrene

Concen: 47.746 ng

RT: 13.00 min Scan# 1813

Delta R.T. -0.01 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

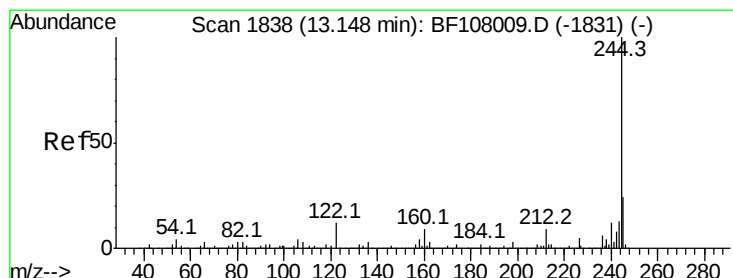
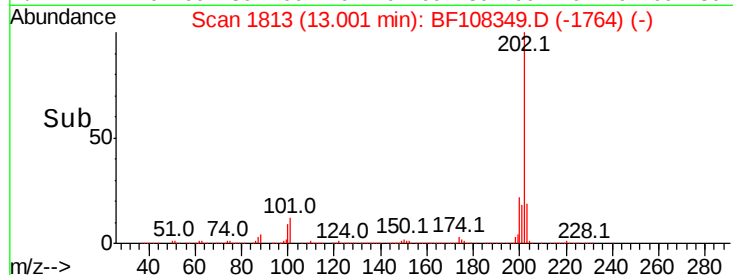
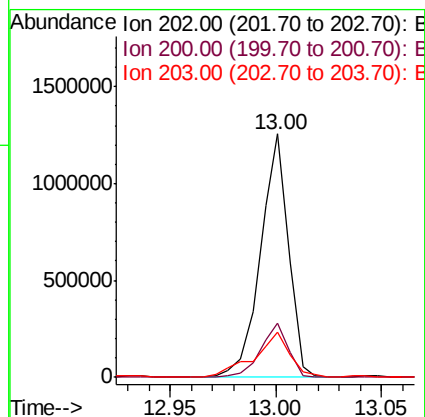
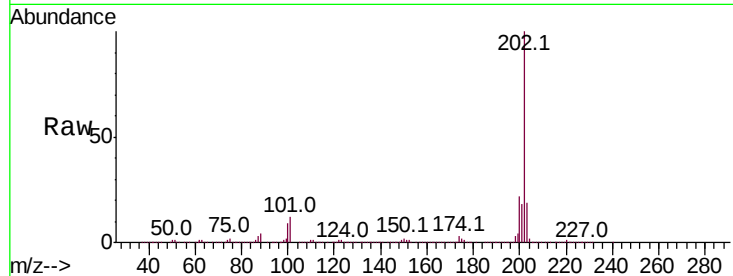
ClientSampleId :

72-11967DL

Tot Ion:	202	Resp:	1155404
Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.4	26.2
203	18.6	14.3	21.5

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#78

Terphenyl-d14

Concen: 21.514 ng

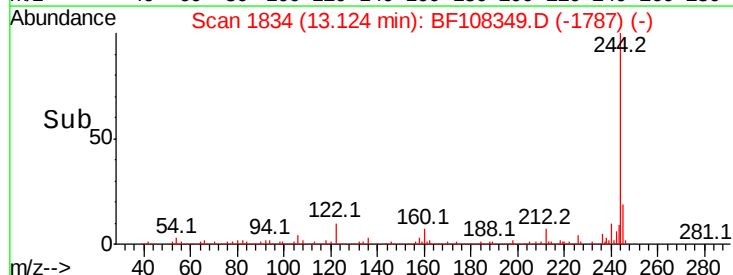
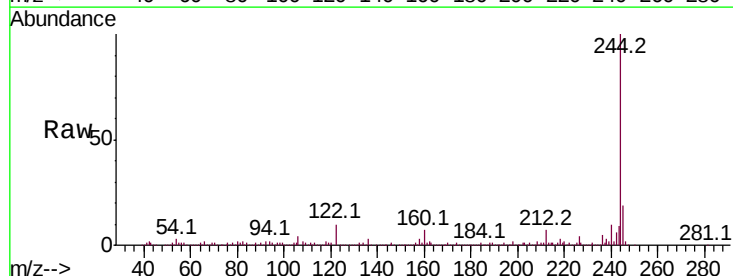
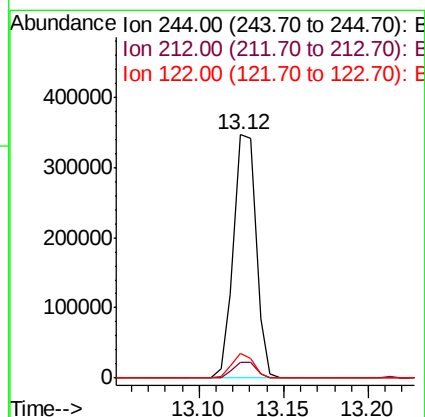
RT: 13.12 min Scan# 1834

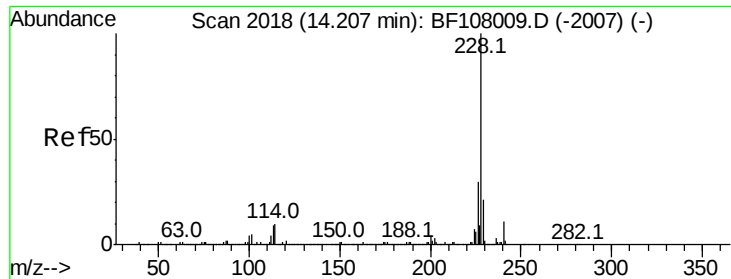
Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Tgt Ion:	244	Resp:	323424
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	10.3	11.0	16.4#





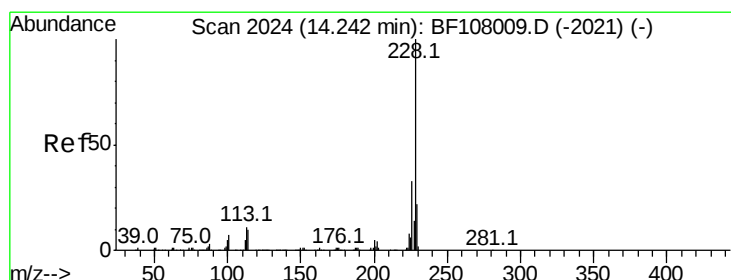
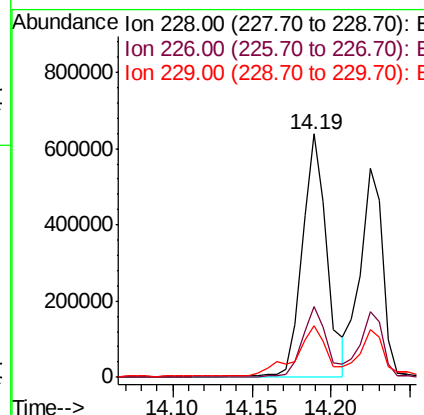
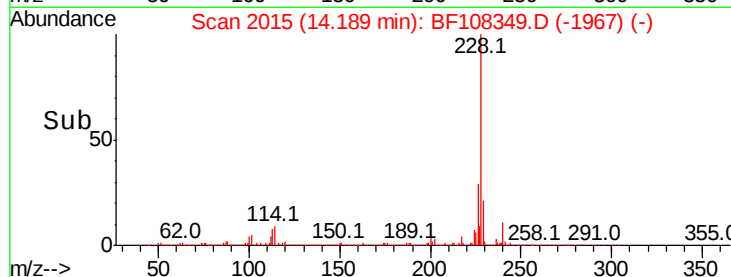
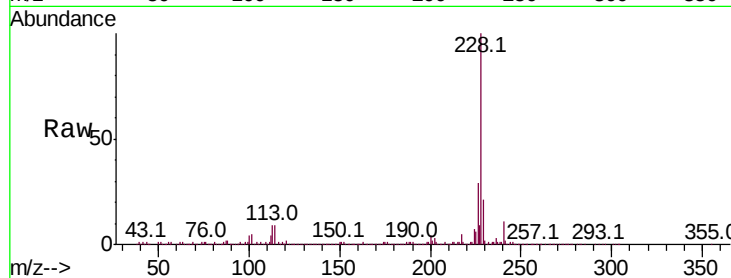
#80
Benzo(a)anthracene
Concen: 30.982 ng
RT: 14.19 min Scan# 2015
Delta R.T. -0.02 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Instrument :
BNA_F
ClientSampleId :
72-11967DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.6	33.8
229	21.0	15.8	23.6

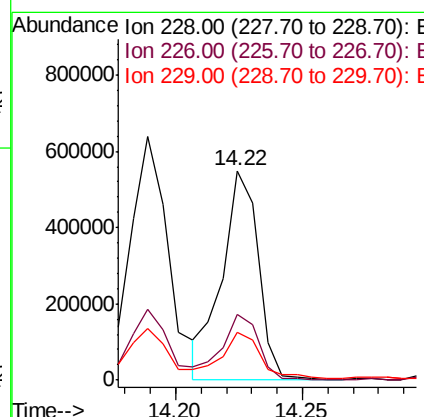
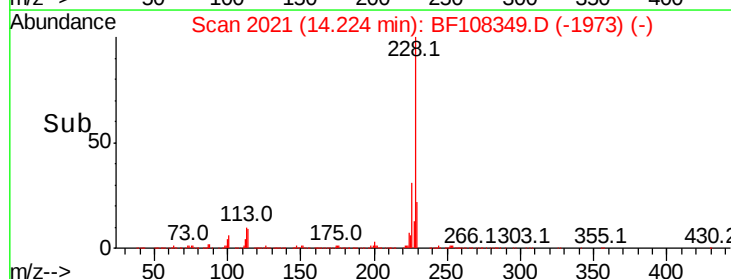
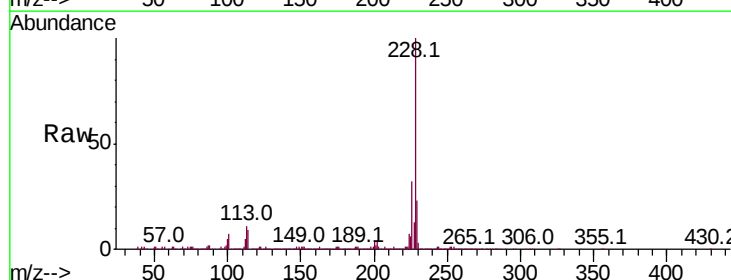
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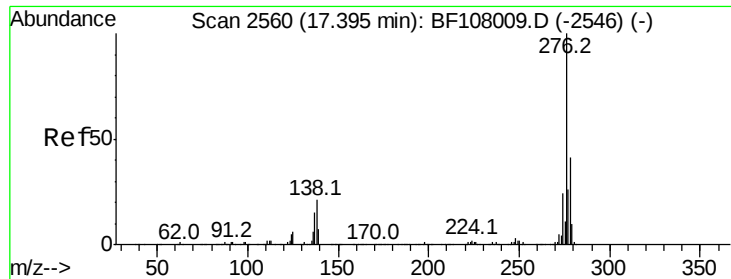
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#82
Chrysene
Concen: 27.024 ng
RT: 14.22 min Scan# 2021
Delta R.T. -0.02 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.0	37.6
229	23.1	16.2	24.4





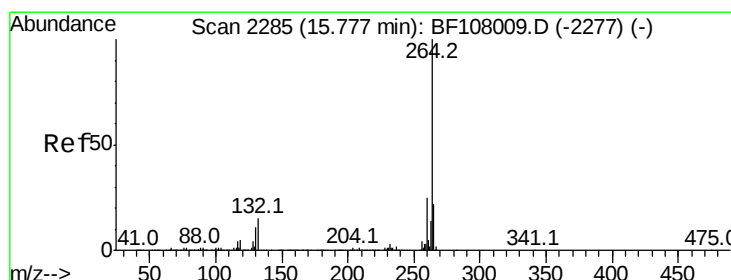
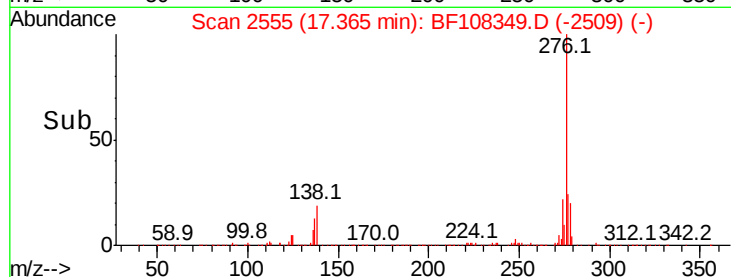
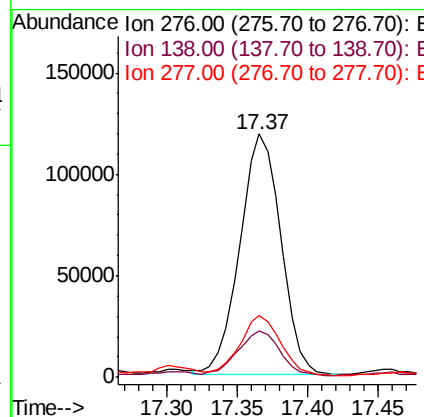
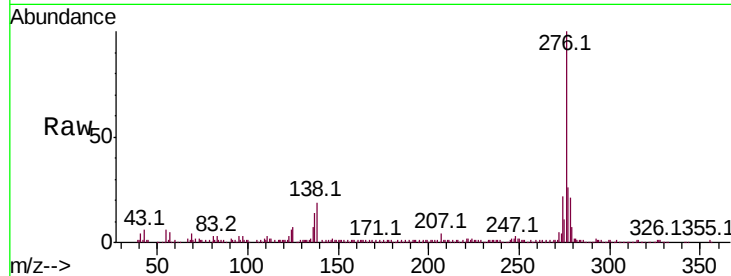
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.830 ng
 RT: 17.37 min Scan# 2555
 Delta R.T. -0.03 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Instrument :
 BNA_F
 ClientSampleId :
 72-11967DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.0	25.0	37.6#
277	24.7	20.1	30.1

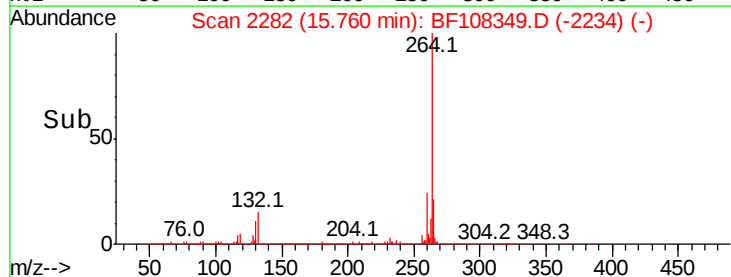
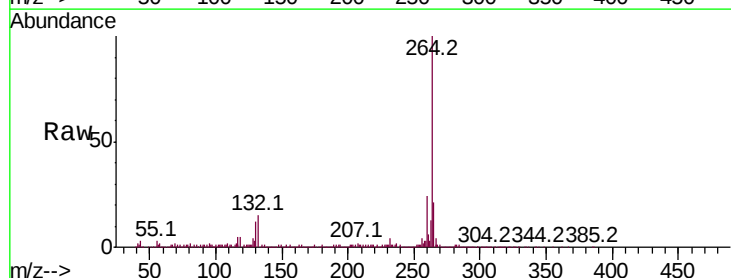
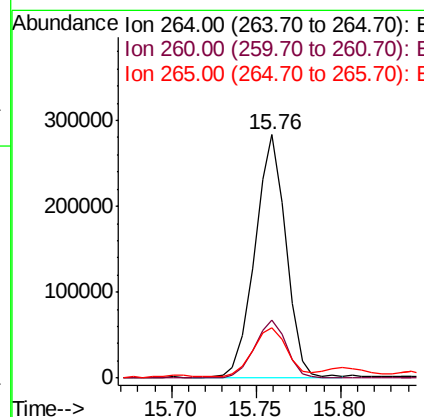
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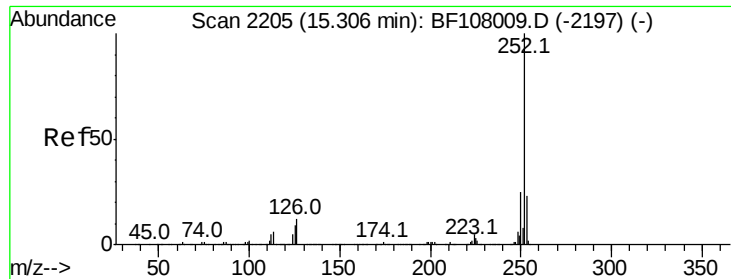
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#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.76 min Scan# 2282
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	20.8	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 35.651 ng m

RT: 15.29 min Scan# 2202

Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

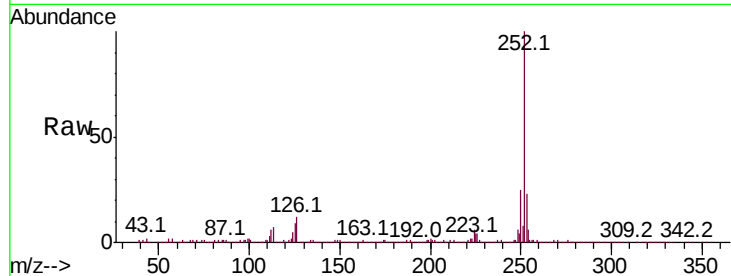
ClientSampleId :

72-11967DL

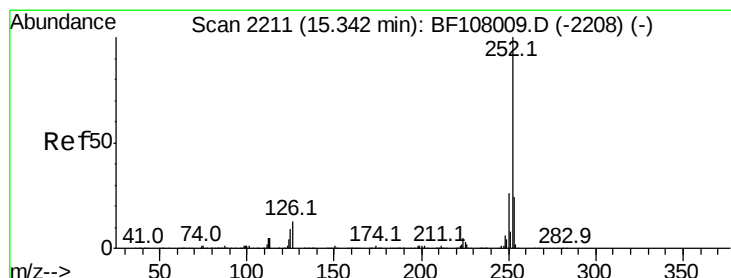
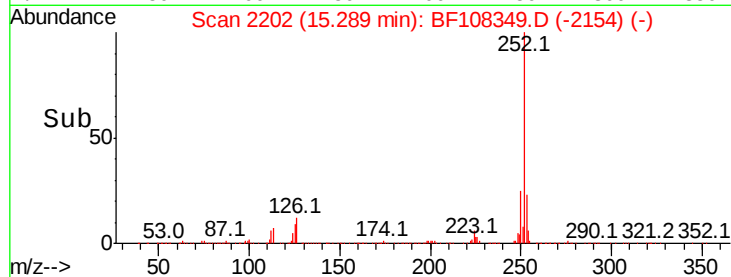
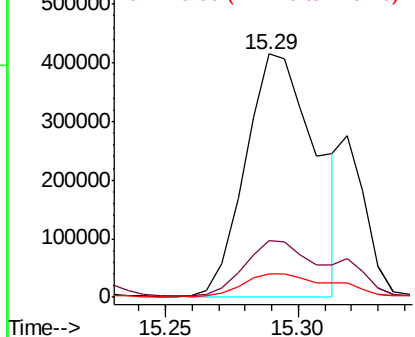
Tot Ion:	252	Resp:	768898
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.0	25.6
125	9.4	9.0	13.6

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 9.461 ng m

RT: 15.32 min Scan# 2207

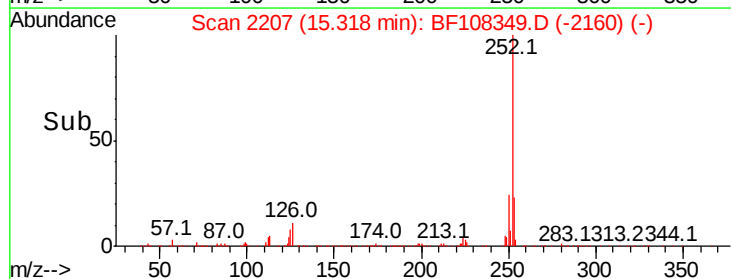
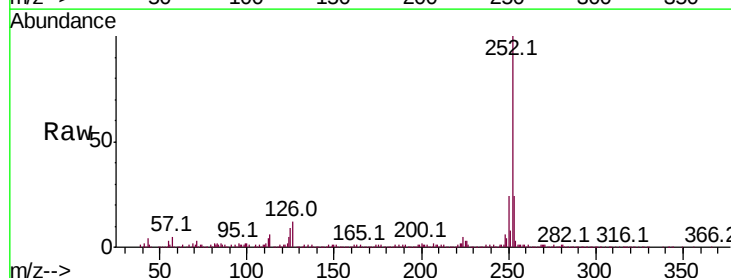
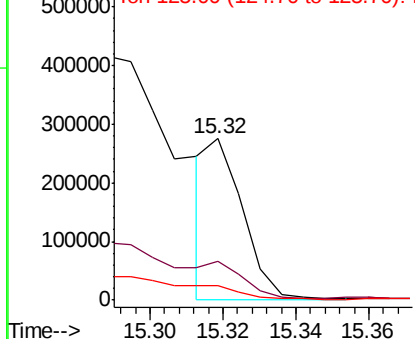
Delta R.T. -0.02 min

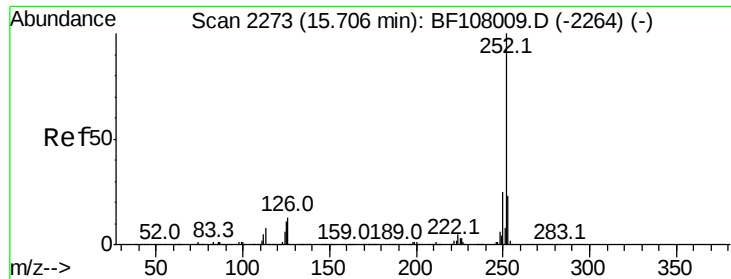
Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Tgt Ion:	252	Resp:	187569
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.9	26.9
125	8.9	10.2	15.2#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





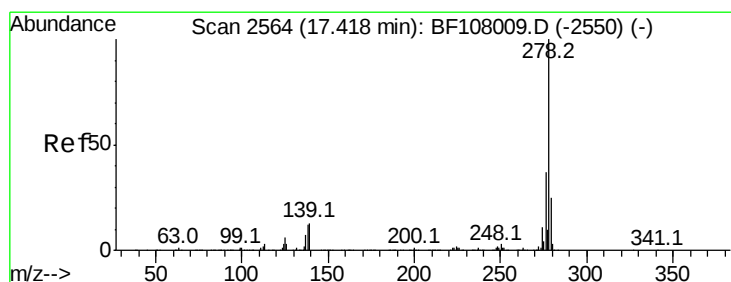
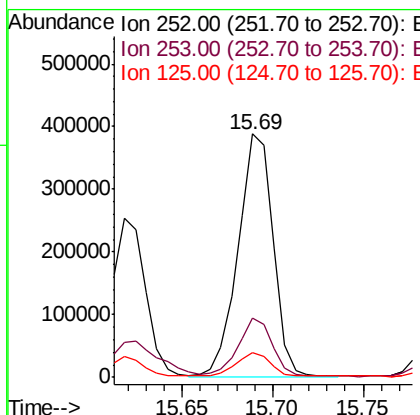
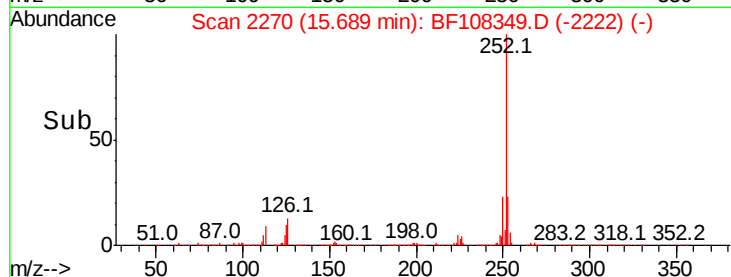
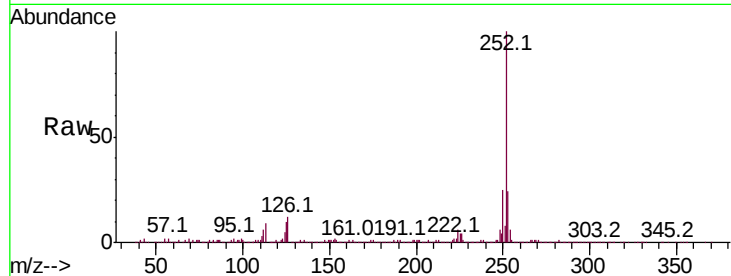
#89
Benzo(a)pyrene
Concen: 26.779 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.02 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Instrument :
BNA_F
ClientSampleId :
72-11967DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.1	25.7
125	10.3	9.8	14.6

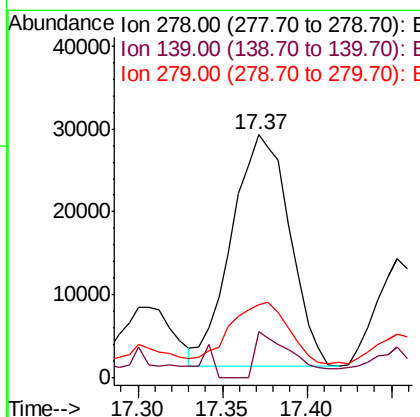
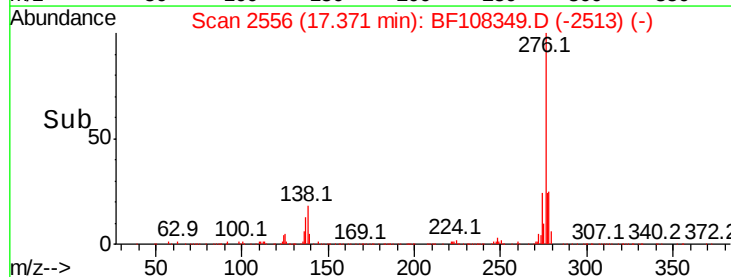
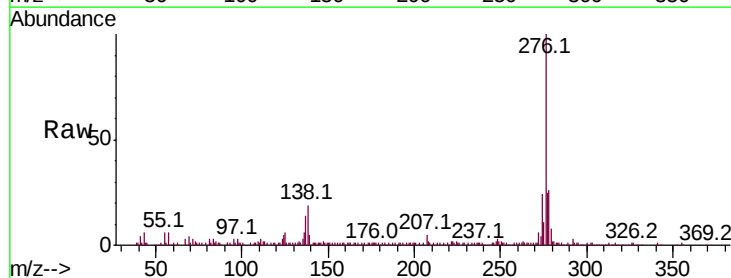
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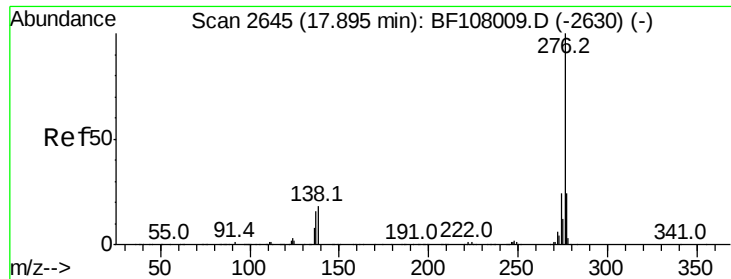
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#90
Dibenzo(a,h)anthracene
Concen: 4.136 ng
RT: 17.37 min Scan# 2556
Delta R.T. -0.05 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.0	15.9	23.9
279	30.2	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 13.480 ng
 RT: 17.86 min Scan# 2639
 Delta R.T. -0.04 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Instrument :
 BNA_F
 ClientSampleID :
 72-11967DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.7	17.9	26.9
138	19.7	21.8	32.8#

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